

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1 1. (original) A method comprising:
2 attempting in a first attempt to acquire a first resource for a task requiring both a
3 first resource and a second resource;
4 enqueueing said task on a first queue if said first attempt to acquire said first
5 resource for said task fails;
6 acquiring in a second attempt said first resource for said task;
7 removing said task from said first queue;
8 attempting in a first attempt to acquire said second resource for said task;
9 enqueueing said task on a second queue if said first attempt to acquire said second
10 resource for said task fails; and
11 releasing said first resource for said task if said first attempt to acquire said
12 second resource for said task fails.
- 1 2. (original) The method of claim 1 wherein said first task has a first priority,
2 and wherein said first attempt to acquire said first resource fails when a second task
3 having said first priority in enqueued on said first queue.
- 1 3. (original) The method of claim 2 wherein said first task has a first priority,
2 said method further comprising:
3 attempting in a first attempt to acquire said first resource for a third task requiring
4 said first resource and having a second priority higher than said first priority, and
5 enqueueing said third task on a third queue if said first attempt to acquire said first
6 resource for said third task fails; and

7 wherein said first attempt to acquire said first resource for said first task fails
8 when said third task having said second priority is in enqueued on said third queue.

1 4. (original) The method of claim 3 wherein said first task has a first priority,
2 and wherein said first attempt to acquire said second resource fails when a fourth task
3 having said first priority in enqueued on said second queue.

1 5. (original) The method of claim 4 wherein said first task has a first priority,
2 said method further comprising:
3 attempting in a first attempt to acquire said second resource for a fifth task
4 requiring said second resource and having a second priority higher than said first priority,
5 and
6 enqueueing said fifth task on a fourth queue if said first attempt to acquire said
7 second resource for said fifth task fails; and
8 wherein said first attempt to acquire said second resource for said first task fails
9 when said fifth task having said second priority is in enqueued on said fourth queue.

1 6. (original) The method of claim 5 further comprising:
2 acquiring in a third attempt said first resource for said first task;
3 attempting to acquire in a second attempt said second resource for said first task;
4 and
5 releasing said first resource for said first task if said second attempt to acquire
6 said second resource for said task fails.

1 7. (previously presented) The method of claim 5 further comprising:
2 acquiring in a third attempt said first resource for said first task;
3 acquiring in a second attempt said second resource for said first task;
4 removing said first task from said second queue; and

5 dispatching said first task to be completed using said first and second resources.

1 8. (currently amended) A method comprising:
2 attempting in a first attempt to acquire a first resource for a task requiring both a
3 first resource and a second resource;
4 enqueueing said task on a first queue if said first attempt to acquire said first
5 resource for said task fails;
6 acquiring in a second attempt said first resource for said task;
7 removing said task from said first queue;
8 attempting in a first attempt to acquire said second resource for said task;
9 enqueueing said task on a second queue if said first attempt to acquire said second
10 resource for said task fails; and
11 releasing said first resource for said task if said first attempt to acquire said
12 second resource for said task fails;
13 wherein said first task has a first priority, and wherein said first attempt to acquire
14 said first resource fails when a second task having said first priority is enqueued on said
15 first queue;
16 attempting in a first attempt to acquire said first resource for a third task requiring
17 said first resource and having a second priority higher than said first priority, and
18 enqueueing said third task on a third queue if said first attempt to acquire said first
19 resource for said third task fails;
20 wherein said first attempt to acquire said first resource for said first task fails
21 when said third task having said second priority is in enqueued on said third queue; and
22 wherein said first attempt to acquire said second resource fails when a fourth task
23 having said first priority is enqueued on said second queue;
24 attempting in a first attempt to acquire said second resource for a fifth task
25 requiring said second resource and having a second priority higher than said first priority,
26 and

27 enqueuing said fifth task on a fourth queue if said first attempt to acquire said
28 second resource for said fifth task fails;
29 wherein said first attempt to acquire said second resource for said first task fails
30 when said fifth task having said second priority is in enqueued on said fourth queue;
31 acquiring in a third attempt said first resource for said first task;
32 acquiring in a second attempt said second resource for said first task;
33 removing said first task from said second queue;
34 dispatching said first task to be completed using said first and second resources;
35 ~~The method of claim 7 further comprising:~~
36 finding another task enqueued on one of said second and fourth queues for said
37 second resource;
38 acquiring said first resource for said other task;
39 attempting to acquire said second resource for said other task;
40 removing said other task from its queue if said attempt to acquire said second
41 resource for said other task succeeds;
42 dispatching said other task to be completed using said first and second resources
43 if said attempt to acquire said second resource for said other task succeeds; and
44 releasing said first resource for said other task if said attempt to acquire said
45 second resource for said other task fails.

1 9. (original) The method of claim 7 wherein said third attempt is initiated by
2 the second resource becoming free.

1 10. (original) The method of claim 7 wherein said third attempt is initiated by
2 the first resource becoming free.

1 11. (currently amended) A method comprising:
2 attempting in a first attempt to acquire a first resource for a task requiring both a
3 first resource and a second resource;
4 enqueueing said task on a first queue if said first attempt to acquire said first
5 resource for said task fails;
6 acquiring in a second attempt said first resource for said task;
7 removing said task from said first queue;
8 attempting in a first attempt to acquire said second resource for said task;
9 enqueueing said task on a second queue if said first attempt to acquire said second
10 resource for said task fails; and
11 releasing said first resource for said task if said first attempt to acquire said
12 second resource for said task fails;
13 wherein said first task has a first priority, and wherein said first attempt to acquire
14 said first resource fails when a second task having said first priority in enqueued on said
15 first queue;
16 attempting in a first attempt to acquire said first resource for a third task requiring
17 said first resource and having a second priority higher than said first priority, and
18 enqueueing said third task on a third queue if said first attempt to acquire said first
19 resource for said third task fails;
20 wherein said first attempt to acquire said first resource for said first task fails
21 when said third task having said second priority is in enqueued on said third queue; and
22 wherein said first attempt to acquire said second resource fails when a fourth task
23 having said first priority in enqueued on said second queue;
24 attempting in a first attempt to acquire said second resource for a fifth task
25 requiring said second resource and having a second priority higher than said first priority,
26 and
27 enqueueing said fifth task on a fourth queue if said first attempt to acquire said
28 second resource for said fifth task fails;

29 wherein said first attempt to acquire said second resource for said first task fails
30 when said fifth task having said second priority is in enqueued on said fourth queue;
31 acquiring in a third attempt said first resource for said first task;
32 acquiring in a second attempt said second resource for said first task;
33 removing said first task from said second queue;
34 dispatching said first task to be completed using said first and second resources;
35 ~~The method of claim 7 further comprising:~~
36 after all tasks have been removed from said second and fourth queues, finding a
37 next task enqueued on one of said first and third queues for said first resource;
38 acquiring said first resource for said next task ;
39 attempting to acquire said second resource for said next task;
40 removing said next task from its queue if said attempt to acquire said second
41 resource for said next task succeeds;
42 dispatching said next task to be completed using said first and second resources if
43 said attempt to acquire said second resource for said next task succeeds; and
44 releasing said first resource for said next task if said attempt to acquire said
45 second resource for said next task fails.

1 12-30. (cancelled)